

## ABSTRACT

Low-melting point metallic material is designed to be  
5 able to melt with an inclined melting cylinder installed in  
the condition of combining an injection member with an  
agitating member therein, and a molten metal is designed to be  
able to weigh and inject by a plunger, whereby molding  
accuracy and efficiency can be improved more than a die-cast.  
10 A injection mechanism 2 is constituted by a melting cylinder  
11 which a weighing chamber 17 communicating with a nozzle  
member 15 is provided on the inside of the tip, agitating and  
injection means provided in the combined condition in the  
melting cylinder so as to rotate or, advance or retreat freely  
15 and a device driving agitating and injection means, which is  
arranged on an rear-end side of the melting cylinder. The  
injection mechanism 2 is provided obliquely in a manner that a  
nozzle member side is directed in a downward direction to a  
mold-clamping mechanism 1. The agitating and injection means  
20 is constituted by an agitating member 24 in which agitating  
wings having a plurality of stripes with an external diameter  
approximately equal to an inner diameter of the melting  
cylinder are formed intermittently on an outer periphery of a  
tip portion of a hollow shaft portion 23 having a through-hole  
25 at the central position and an injection plunger 30 attached  
unitarily to a tip of an injection rod 29 inserted into the  
through-hole and provided slidably freely on a central  
position of the agitating member 21 and provided so as to  
insert into the weighing chamber 17 freely.

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